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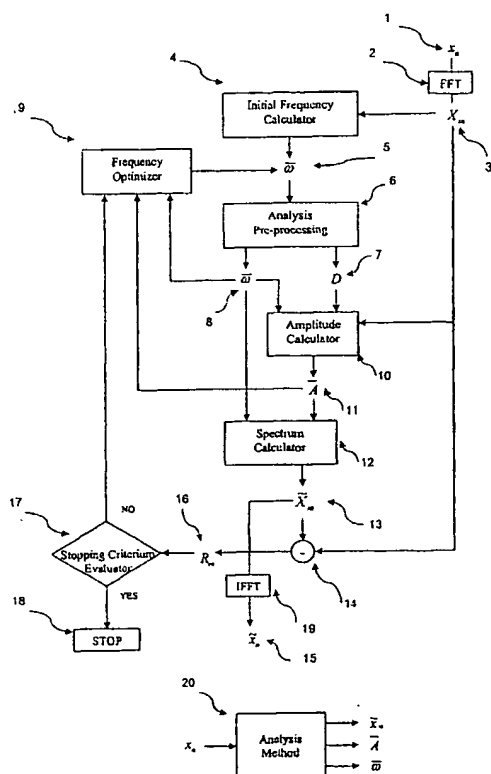
(54) Title: A HIGHLY OPTIMIZED NONLINEAR LEAST SQUARES METHOD FOR SINUSOIDAL SOUND MODELLING

(57) Abstract: The present invention relates to a method for modelling, i.a. analyzing and/or synthesizing, a windowed signal such as sound or speech signals, by computing the frequencies and complex amplitudes from the signal using a nonlinear least squares method, whereby the computational complexity is reduced by taking into account the bandlimited property of a window.

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